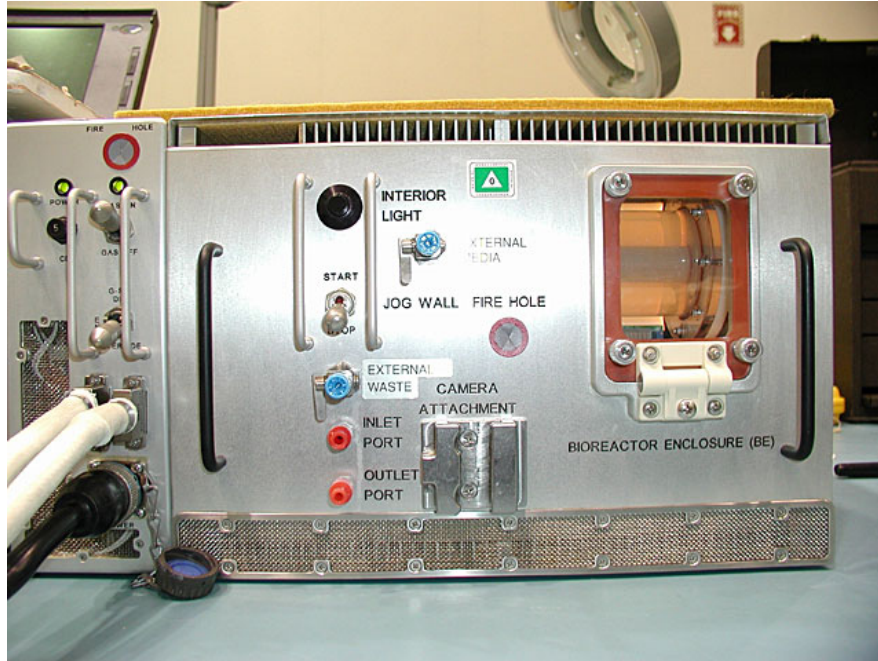


Engineering Development Unit (EDU)



Engineering Description

The EDU is a bioreactor system used to grow three-dimensional tissue cultures in space or in simulated microgravity on earth. The EDU houses a rotating wall perfused vessel that is maintained at 36 degrees C. The vessel will support cell growth for an experiment period of up to 20 days. During this term, the system maintains temperature, circulates and oxygenates media, and facilitates removal of media samples, cell samples, and expended products.

Flight History:

Past

July 1995 STS-70
Sep 1996 STS-79/Mir 3
Aug 1997 STS-85
Jan 1998 STS-89/Mir 7

Future